# Missouri Botanical Garden

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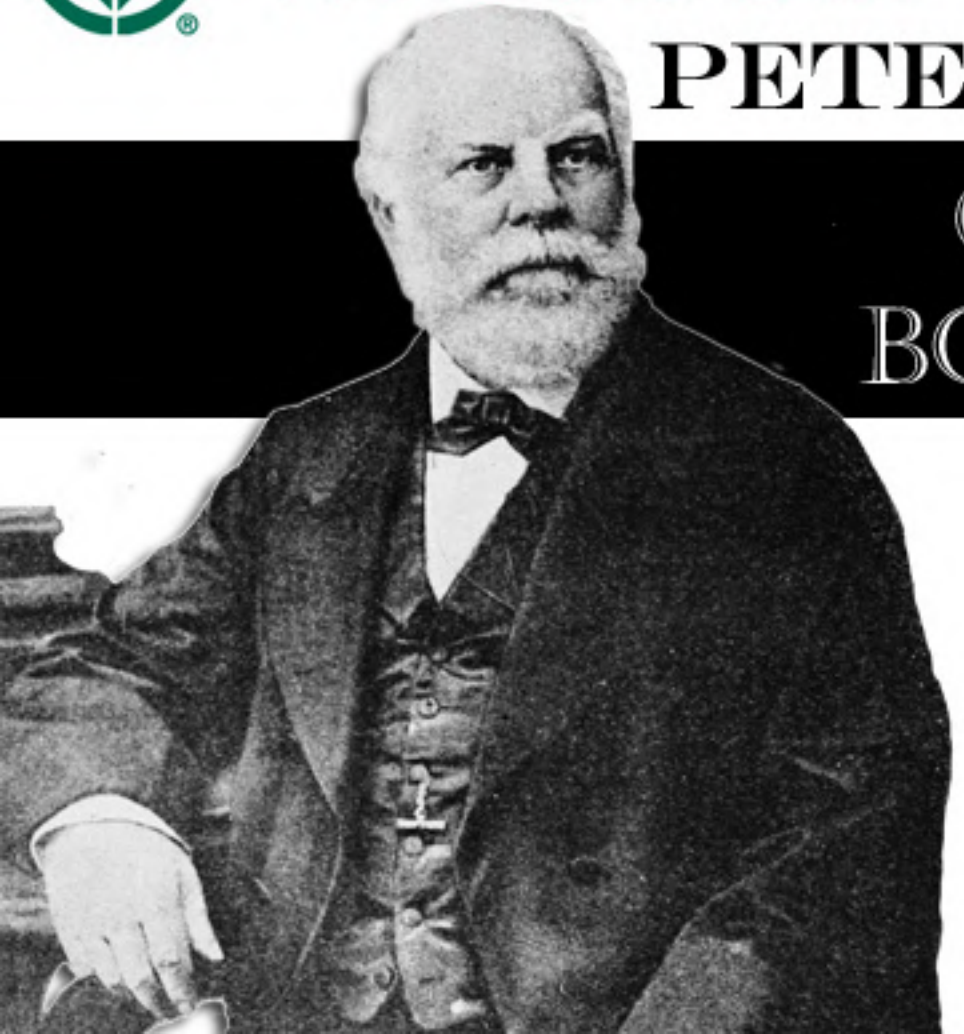
# George Engelmann Botanical Notebooks



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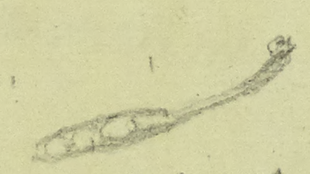
Trifolium from Wisliger's farm May 30 1870

607

legume x4

mostly 2 seeded

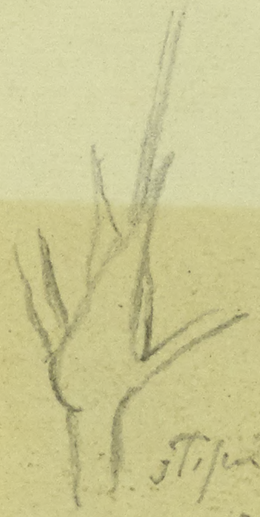
x20



pistil x4

4 ovules

upper teeth equal to others with wide sinus,



stipule convolute adnate to base of petiole

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Trifolium pratense

May 30 1870

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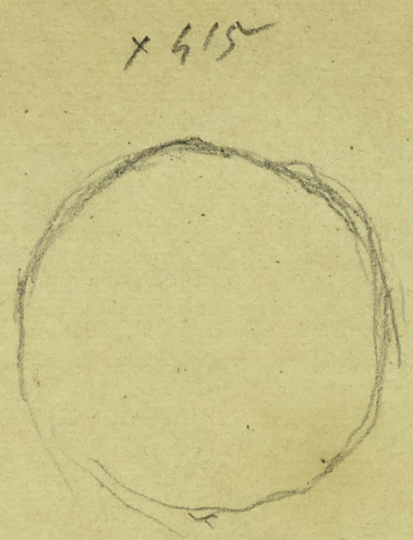


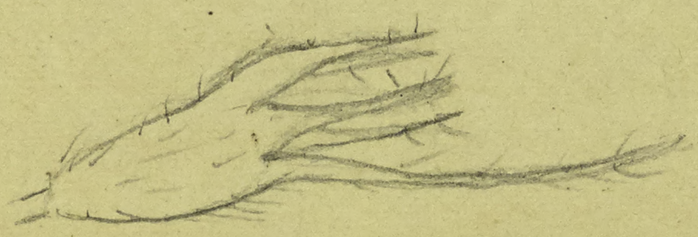
×4.15

pistil ×4

style very thin below, swollen higher up.

×4

pistils & stamens connate in long tube



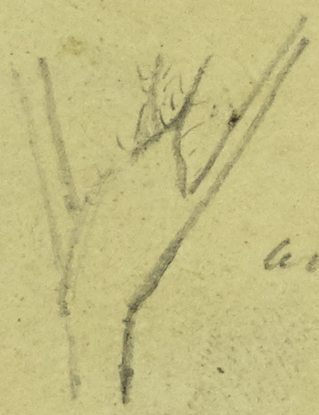
legume

×4

×20

2 ovules

lowest tooth longest, upper with narrow slit but scarcely connate



stipules ovate, acuminate adnate for up

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Baptisia leucantha · C09

St Louis July 20 1871

phyllodia on trunk and consequently their axillary branches in 1/3 arrangement leaves on branches in 1/2, flowers in compound unusual order 7/18?

There is always a primary (?) undeveloped leafbud between leaf and branch, on stem as well as branches

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*Sir:*

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*Physostegia venenosum*. Balfour
in Trans. Roy. Soc. Edinby. 22
Pascolarcos, pg 305. 2 plates.

Hanbury in Seemann's Journal of Botany
1. p. 239. (Aug 1863)

610

San Francisco Mt. 112.22 west.
35° 12 north

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Leitch & Cories
DRUGGISTS
South West Corner Fifth and Market Streets.

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Nov. 1848.

Eysenhardtia.

E. Drummondi H. Bramfels, Linnaea . . August - pl.
spike dense multifl
Calyx tubulosus, basi obconicus, glandulosus; dentibus triangulari-
bus, subaequalibus, 2 superioribus paulo latioribus, reliqui-
oribus infimo non longiore; — corolla papilionacea;
carinaque petalis vexillo cacteris paulo longiore
vexillo oblongo, integro s. paulo emarginato alis
-breuibus
obovatis, oblongis, obtusis; — staminibus monadelphis in basi tubo connatis
glabro
ovario bioulato, stylo recto apice pilosum ....
glabro supra spectante
stigmate obtuse infenius; legumine oblongo duplo superante,
obovato falcato, stylo recto persistente, semine unico
subcuneinato. —

Foliolis 12 jugis foliolis oblongo-lineatis, 611
obtusis s. emarginatis, supra glabris subtus
reticulatis, glandulosis et adpresse pubescentibus; stipel-
lulato stipellis brevibus subulatis.
Shrub 4-7 feet high. Leaves 1-2 inches long

E. Rinconada, Dr Gregg. May - pl.
calyx similar, only teeth shorter quite rounded; petals
vexillum more distinctly emarginate
and anthers similar; style in ovary hairy, style hooked
leaves a little larger, more distinctly glandulous-
crenulate, pubescent on both s. dry - leaflets 12-14 pairs
Shrub, 3 feet high. Leaves 1½-2 inches long

E. spinosa n.sp. Lake Encinillas Dr Gregg (Chihuahua) 133
spike pauciflora
calyx obconico-campanulatus, vix glandulosus, pubescens;
dentibus triangulatis, obtusis, 2 superioribus
latioribus remotioribus; infimo vix longiore; corolla
papilionacea; petalis longitudine sub aequalibus, vexillo bilobo,
alis carinisque liberis obtusis staminibus sub diadelphis
decimo liberis alteris paulo longioribus connatis v. fissum
ovario 4 ovulato, stylo recto
pilosa, apice uncinato, stigmate obtuse glandulosa supra spectante
Foliis 6-8 jugis, foliolis ovatis acutis minutim
adpresse pilosis, infra glandulosis, stipulatis stipellatisque

A. rough, very much branched shrub; almost spinous for the persistent pedunculos or rhachis; bark dark brown or black; shrub, 2-3 feet high, fl. ~~white~~ white, at last reddish; leaves 4-6 or 7 l. long, leaflets 1-1¼ l. spikes ~~many~~ about one inch long with very stout rhachis begins to flower End of August (at the commencement of the rainy season.)

Eysenhardtia Mountains of Coniguiriachi Dr. Wislizen. 15-Sept 1846.

spicis densis multiflors villoso viscidulis glandulosis triangulatis, Calyce campanulato; dentibus superioribus latioribus, remotioribus infimo longiore angustiore; vexillo orbiculato, cordato; staminibus monadelphis, tubo supra fisso; ovario villoso 2-ovulato, stylo filiformi, uncinato-recurvo, stigmate acuto.

Foliis 3-4 jugis, foliolis oblanceolatis, obtusis, basi acutis; stipulis stipellisque minutis

(X ultro-que nigro punctulatis glandulosis pilosiusculisque,)

Shrub 2-3 feet high; bark whitish; flowers larger than in any of the other species. — spikes white 2-4 inches long leaflets 8-10 lines by 2-2½ l. wide; besides the black dots on both sides there are innumerable transparent glands in the substance of the leaf.

It is distinguished from the three others by the cordate orbicular vexillum, by the gland on the anther, by the filiform long hooked style, by the transparently punctate and on both sides dotted leaves. ——

N.B. The gland on the style of the 3 first species is not the stigma, but only a smooth gland; the stigma itself is terminal ?. obtuse.

(A small tree, Guanaxato — Nothing of the gland on the style is said.

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E. Drummii

612

tube closed

vexill

E. Greggii

Papilionaceous flower

E. spinosa

vexill

alternately

Tube open at a

E. Wislizeni

vexil

ala

carina

Tube open

tube and stamens will be longer in the fully developed flower — this is for a bird

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dentibus superior[illegible]

~~deciduis~~; Petala 5 – connata papilionacea disposita, vexillo oblongo cucullato carinalibus distinctis. Stamina 10 monadelpha s. diadelpha. Ovarium 2 – 4 ovulatum, Styles filiformis rectus apice curvatus s. uncinatus, ~~glandulo~~ subtiliter obtuso ~~lateraliter~~ 1-glandulatus. Legumen compressum oblongo-lanceolatum, lunulatum, rostratum, 1- loculare 1- sperm. Tribus ~~Boreales~~ et arbores mexicanae et texanae ~~nervosae~~ Amorpha spicis, Folia impari pinnata, multijuga, ~~alternae~~ nigro- ~~que et leguminis~~ glandulosa impunctata; foliola stipellata. Racemi terminales pauciflori s. multiflori; calyces et legumina glandulosa flores albidi.

(If you leave out: dentibus inferioribus subaequalibus) (this will include so far as I understand it, Lysentelis Amorphoides, the style of which is unknown to me.)

1. E. amorphoides HBK. arborea; spicis terminalibus, calycibus obconico-campanulatis, stam. 2. dd. 8 fere dilyp. glandulose-punctatis, ovario oblongo

2. E. Drummondii Torr. putidosa, foliis 12-jugis, foliolis oblongo-lanceolatis, obtusis s. emarginatis supra glabris, subtus reticulatis glandulosis et adpresse pubentibus, margine ciliatis integris; stipulis subulato setaceis, stipellis brevibus subulatis; spicis paniculato-aggregatis, multifloris, elongatis, calycis dentibus triangulatibus subaequalibus; vexillo apice integro s. vix emarginato, staminibus tubo brevissimo integro monadelphis, ovario biovulato; & stylo glabro, apice incurvo, ~~glandula~~ ~~Corolla lanceolato-elliptico subpilosulo~~ Fl. Jul – Aug.

N. Brazos, Texas, T. Lindheimer, – Shrub 4 – 7 feet high, leaves 1 – 2 inches long; Fl. white; style curved upward but not hooked; glands large, ~~Fruit~~ directed ~~downwards~~ towards the carina.

3. E. Greggii n.sp. frutescens, foliis 12 – 16 jugis, foliolis oblongis obtusis, utrinque pubescentibus, infra glandulosis margine glandulosa-crenulatis; spicis ~~paniculato aggregatis~~ ut supra, calycis dentibus abbreviatis, rotundatis, subaequalibus, vexillo apice brevi bilobo, ovario biovulato et stylo apice submuricinato pubescentibus.

Rivers, Northeast Mexico Dr Gregg: Fl May; Shrub about 3 feet high; leaves 1½ – 2 inches long; white style almost uncinate, more curved than the filiform stamens; pedicels glands directed towards the carina. – Very near E. Drummondii.

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[illegible]

staminibus, subaequalibus; vexilla profunde bilobo, staminibus
tubo longiore) sub didelphis, ovario 4 ovulato, et stylo
apice uncinato pilosis.

In Lake Erie in Ohio near the mouth of Chicheeka. Fl. August. Sept.
A very remarkable species in many respects with a rough looking stem 2-3 feet high with black bark
leaflets 1-1¼ l. long; spikes 1 inch long with stout
persistent bracts; fl. white, turning reddish; filament
shortest, and almost free, only adhering at base
to the tube; — style strongly hooked, gland large, directed
towards the vexillum (on the hook) = Dalea

**Eysenhardtia** n. gen. Calyx campanulate 5-dentate-
dent. sup. cat. rem. Stamens 10 distinct, vexillum ovate obtuse, pap. 0
pap. disp; vexillo rotundo orbiculato integro, carina obtuse
stamen 10 c. fissum dorsali monadelph. v. d. 2 ov. — Styles
capillaceus recurvus eglandulosus — stigmate obtuse
uncinato.
Legume ? —

Frutex mexicanus, ramis Eysenhardtiae fariae; foliis
imp. pin. 3-4 jugis rigidis glandulosis et pellucido-punctatis
foliolis minute stipellatis. Race. Terminal, panicled
multiflori; calyces glandulosi; villosi, flores alb.
styles ovar. stylosque pilosus.

Distinguished from Eys. by the obovulate pod,
glandulous anthers, capillary eglandulous style, and
acute stigma. Fruit not seen.

E. texicana n. sp. Mts. S. Lorenzo. Dr. W. H. Sept.
Shrub 2-3 feet high, with whitish bark; leaves
2-4 inches long, leaflets oblanceolate obtuse, 8-10 l. long
2-2½ l. wide; Besides the black glands on pellucid-punctate dots,
the upper surface between both sets of cells. — Style flexuous, somewhat twisted
(flexuous) and with a large upper hooked.

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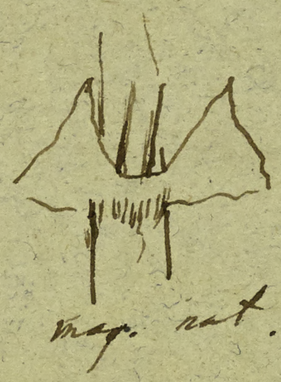
1843

614

stipulae

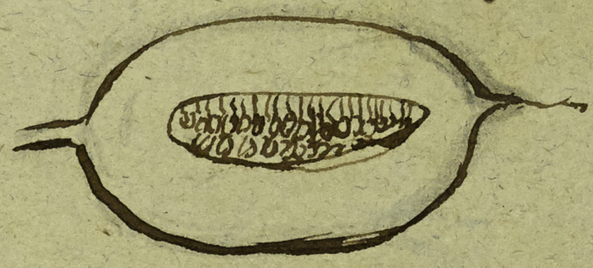
flores

mag nat


mag. nat.

fructus

mag. nat



Mexicanus

Astragalus perennis, caulibus pluribus, adsurgentibus, ad apicem pilis adpressis pubescentibus; stipulis triangularibus contis petiolo ~~adnascentibus~~ et inter se connatis; foliolis 12 jugis, inferioribus rotundato – superioribus lanceolato – ellipticis, omnibus emarginatis v. obtusis subcarnosis, supra glabernimis, infra pilis simplicibus ~~vel~~ pubescentibus; racemis foliis ~~longioribus~~ superantibus, laxis floribus lutantibus vel patulis 10–15-floris, bracteis pedicello brevioribus longioribus, calycibus albo-villosis cylindraceis, supra gibbosis dentibus ovatis acutis ~~tertia~~ tubo ter tertio brevioribus corolla ochroleuca calycem duplo superante carina apice violacea,

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Legumine glabra, carnosa, ovato, acuto
subcompresso, bicarinati, (seminibus
biserialibus)

in pratis siccioribus (Attenden Cotton) et ad
colles vicinos (bluffs) e regione St Louis,
fl. Apr. et Mayo.
fruct. Junio.

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615

Amorpha incana

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Locus: Lamarbidegan 17.

616

Astragalus sect Missouriensis Nutt

Caule suffruticoso ± arcuato, ramis foliiferis ± —
basi persistentibus stipulis petiolo adnatis ovatis
subscariosis, junioribus sericeis, 6–10 jugis;
foliolis parvis, obovatis obtusis emarginatis
floribus spicato capitatis longe pedunculatis, pedunc.
vix longioribus; floribus violaceis deflexis, bracteis lineari
(pedicello longitudine); leguminibus glabris arcuatis acuminatis
demique erectis, dorso ex flavo fuscis.

H. Mai; Sidewt Missouri, Fort Smith = Little Rock
Arkansas Prairies in Cliffs Fort Wadding.

Astragalus caroliniana, Nutt in Journ Acad. Phil. Prairies
de Amuse Bottom fort Stirpel ouest aut caulis
romatis oppositifoliis! legumen ovat tumid rostrat

Astragalus missouriensis Nutt! Syn. sec Amer
Bottom = Franklin Co Cliffs = Mai =
Post brain dissolved Species C. arrendente subercato,
3–10 pollic. alto — glabriusculo, stipulis sub-
caulinis distinctis, acuminatis ovatis; foliis
8–12 jugis, foliolis subpubescentibus, ambitu foliolis infimis
ovatis obovatis glabriusculis, supernobus ovato —
lanceolatis obtusis puberulis subtus, spicis
ovatis pedunculatis, longitud. foliorum & the flor
bracteis lanceolat vix pedicello longioribus; calyce stri-
dulo villoso albido pilosulo, vexillo ovatis, flore pilosulo albido
apice violaceo, vexillo supra flavo fusco, — legumen
inflato globosis.

Astragalus ? alter micranthus N.A.
caule subercto 1–1½ pedali glabro, stipulis sub-caulinis
distinctis, ovati acutis, albis foliis 6–8 jugis, foliolis

4

glongis · emarginatis, glabriusculis, nervis pilosis.
pedunc. fructiferis elongatis duplo folior longitudine,
p. crassiusculis, bracteis lanceol. minutis, floribus 3–6
fasciculatis.

Frutex ½–1 m. altus, ramis glabrescentibus, foliis
breviter petiolatis, stipulis setaceis deciduis.
½ Phas. leiospermus T. & Gr. Fl. N. Am. I. 313

Phaseolus helvolus ?!

Mir ist hier folgende Aehnlichkeit mit dem Ph. vexillatus (Wallroth
Boden !!) Stängel ohne blonden Filz glatt, Blätter
lanzig, 6 Nerven jeder, — Blüthen scheinbar
büschelig mit rothen Adern — — — Fahne
weiß mit violetten Adern, Flügel violett
Schiffchen weiß mit violetten Adern, Hülse violett
(Blüthen wie bei rothen Phaseolus — Blätter)
(Ph. diversifolius hat violette Blüthen)
Ich weiß nicht ob dem Phaseolus leiospermus
verwandt.

Rhynchosia

Blüthen — Nerven erecta pubescentes, foliol.
ovatis acutis reticulis tessellatis glanduloso
punctatis breviter petiolatis, stipulis lanceolatis
tomentosis persistentibus.

Rh. difformis ! Ein Busch von
Arkansas. volubilis prostrata foliol.
infimis integris, superioribus ternatis ramulis
subtortuosis, spicis floralibus foliis longioribus
de cordiformi-lanceolatis erecta Nat. Pflanze
bei mir der Pflanze.

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Dalea lanata Spreng Caudex adscendens ramosus; ramis Spreng. Exemplare von Arkansas — Nicht gesehen
hoj fili gracil. pell. foliis 4-7 jug is
runcato retusis, submucronatis, pellucido =
punctatis utrinque lanatis — Bracteis (non
subulatis!) ovatis acuminatis calycem sub-
aequantibus — — ruhe dem Beute d. vorigen
flor violaceis. July floret.
hoj. Cumberland Cisjan!

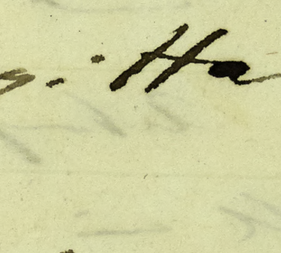
Viria americana Mchl caudex adscendens; ramis glabris. foll. oblong-oval, obtusa mucronata, stipul semisagitt. — dentatis fl. viol.

2/ glabra, foliis ovalis acutis mucronatis stipulis angustissimis semisagitt. dentatis subdentatis. flor violaceis.

3/ pubescens foll ovatis obtusis submucronatis, stipulis minutis semisagittatis vel oblongis. — flor b-. fuscescentis

Viria tridentata ♃ ? Ark. in Viria
prop Scullin. Apodo Stalk, hüj, 4-5
Decim ♀ in Exemplaren, stipes tortis, bifid et integris nervosis
racemi pauciflor foliis brevioribus
Ervum florentum nov. spec? Found on
Arkansas river; in very dürr Boden, selbst
in der Ebene, aber doch nicht in moorigen,
sondern gleichen Lage — Apodo mit ♀
Exemplaren zu haben.
Aug 9th gesät Mai — July. Pflanze
hart Stalk. occupies
Vicia micrantha Vicia micrantha T. & G.
Ervum micranthum nov. spec. Grows
Flats on the Arkansas Creek, in Salina, Arkansas

Vicia Leavenworthii T. & G.



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J. & G.

Yucca mirranthe

in Mai — den 22 d. gebildet sieht die Yucca
d. 4 — 5 Varanj. jedenfalls 2 Tage hindurch
Pollen gibt; jedenfalls kürzer als 2–3
Tage blühen. Stiel fast fehlt, ohne
fast, Bau 2 — 4 reife und völlig Ring
fast ungeben O — blattartig stipul sagi Stells
abortirt, incarnat /// linear sagi Stati
integris.

Salkgnus grandiflus E.? fast ungestielt;
blattförmig 1 bis 2 (—11) blattig; stipulae
semisagittata, accumulate (fast falcate)
2 kinki trifidi (—11 cuspidati).
abortiv, die Rosette, Spitze ohne
rosa in Farbe

Yucca Coolegi Eat? Stock fehlt
bei Yucca; meine Pflanze ist eine Yucca
(od Harlingtonia?) mit hyazinthenartigem Blatt
2 mit Kopfform blüht — Stiel fast
wie Yucca 2 mit 2 — Blattpolster
und 2 Blattlos — Blatt
Yucca 2 — Blatt 2 — Blatt

Lespedeza stylosanthoides n sp
ovate lanceolate stipules adnate to stem
broad coloured calyx & lobes
permanent leaves

618

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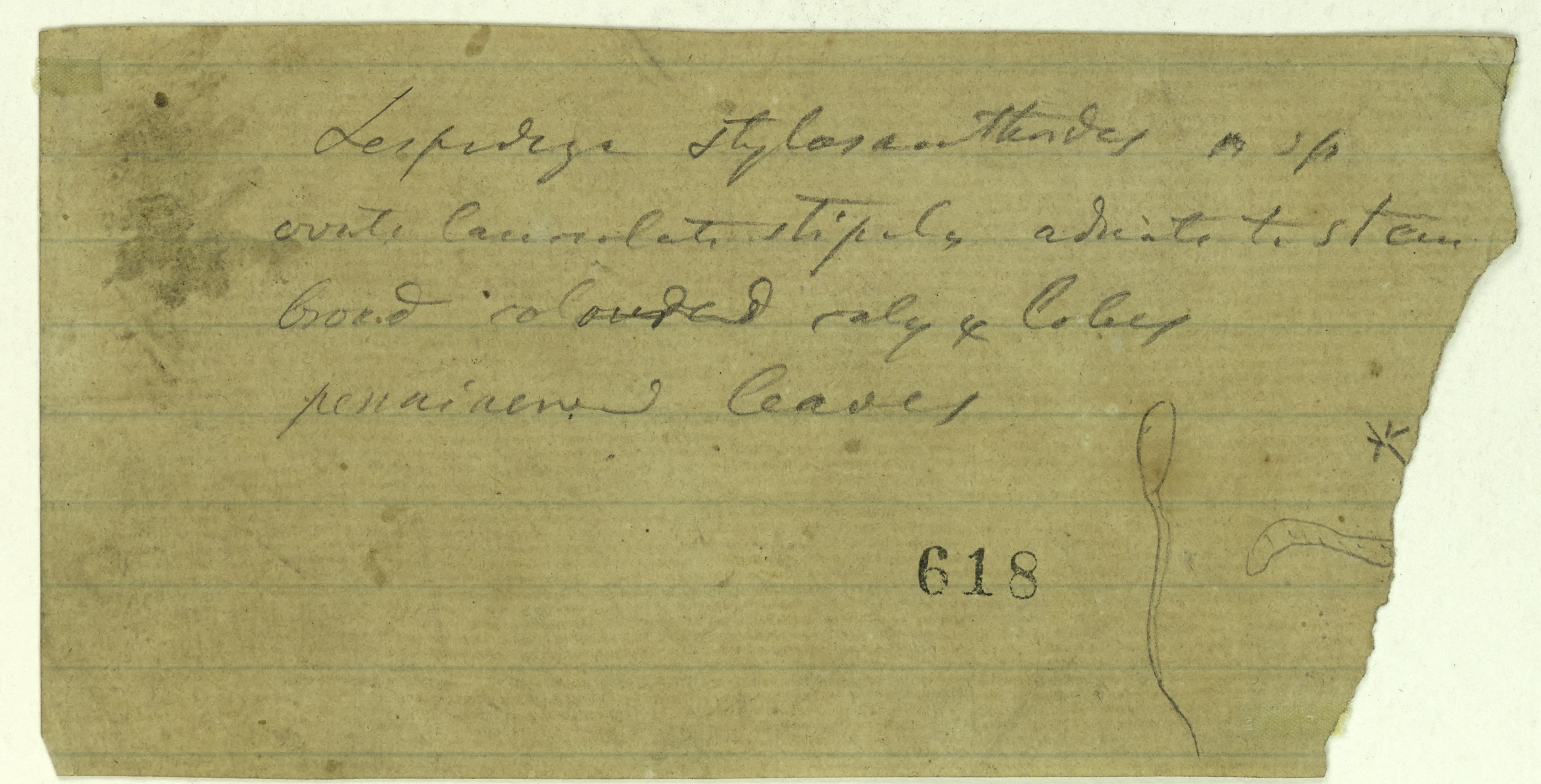

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